## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

- (Currently Amended) A method for protecting ships against terminal homing phase-guided missiles provided with a target data analysis system, wherein
  - (1) the missile moving towards the ship to be protected is detected by suitable sensors, located, and its expected trajectory is calculated by means of a computer;
  - the type of target data analysis performed by the missile is detected by means of suitable sensors and algorithms, and the missile is classified with regard to the type of its target data analysis;
  - (3) the current wind speed and direction of wind is detected continuously by means of wind measuring sensors;
  - (4) the ship's own data:
    travelling speed, direction of travel, rolling and pitching motions, is
    continuously detected by means of motion and/or navigation sensors;
  - (5) the detected data of (1) to (4) is transmitted to a fire control calculator by means of data interfaces;
  - (12) (6) at least one dirigible decoy launcher is controlled by means of the fire control calculator and the firing of decoy ammunitions is initiated, with

the fire control calculator controlling the deployment of the decoys based on the evaluated sensor data with regard to:

- kind of the ammunition type;
- number of the different ammunition types;
- temporal firing interval between successive ammunitions;
- the firing direction of each ammunition in azimuth and elevation, including the compensation of rolling and pitching motions of the ship;
- the delay time of the ammunitions from firing until activation of the effective charge, and thus the distance of the decoy effect;

and

- (7) the fire control calculator calculates an optimal course of the ship and an optimal speed of the ship so as to support the separation of the decoy formation deployed from the ship to be protected in a control computer-supported manner; wherein
- (8) the ship's on-board wind measuring equipment is used as the wind measuring sensors; and wherein
- (9) the ship's own data is detected by the navigation equipment and the gyroscopic stabilization equipment of the ship to be protected or by means of separate acceleration sensors, in particular pitch, roll, or gyroscopic sensors,

wherein

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- (10) a particular decoy pattern is generated in dependence on the identified missile and the attack structure, with the appropriate decoy pattern for the respective type of threat, wherein missile type and homing behavior are stored in a database and fetched by the fire control calculator following identification of the missile type and attack structure, in order to build up a corresponding decoy pattern.
- 2. (Withdrawn) The method in accordance with claim 1, wherein RF and/or IR and/or UV sensors, preferably the ship's on-board reconnaissance radars, are used for detection.
- (Withdrawn) The method in accordance with claim 1, wherein standardized interfaces, in particular NTDS, RS232, RS422, ETHERNET, IR, BLUETOOTH Interfaces, are used as data interfaces.
- 4. (Withdrawn) The method in accordance with claim 1, wherein as decoy ammunitions, those with RF, IR, and combined RF/IR active compositions as well as unfolding, floating radio frequency reflectors, in particular radar reflectors (Airborne Radar Reflectors), are used.
- 5. (Withdrawn) The method in accordance with claim 1, wherein as a fire control calculator a personal computer, a micro-controller control, or an SPS control is used, with the fire control calculator transmitting the determined data for deploying

the decoy formation to the decoy launcher via a standardized data interface, in particular via a CAN bus (Controller Area Network bus).

- 6. (Withdrawn) The method in accordance with claim 1, wherein unfolding decoys are used, wherein the folded decoys are fired by the decoy launcher and unfolded by means of gases during the launch.
- 7. (Withdrawn) The method in accordance with claim 6, wherein a radio frequency reflector, in particular a radar reflector, preferably a corner reflector, preferably a radar reflector having eight tri-hedral corner reflectors (tri-hedrals), in a particularly preferred manner a corner reflector; preferably in the form of nettings or foils, is used as a decoy.
- 8. (Withdrawn) The method in accordance with claim 6, wherein the decoy is unfolded by inflating with hot gases.
- 9. (Withdrawn) The method in accordance with claim 6, wherein the decoy is inflated by means of pyrotechnical gas generators, in particular airbag gas generators.
- 10. (Withdrawn) The method in accordance with claim 1, wherein the decoy pattern is selected from the following geometrical configurations: sandwich; screen; tower; vertical camouflage screen (side-attack protection); horizontal camouflage screen (top-attack protection).

- 11. (Withdrawn) The method in accordance with claim 1, wherein a decoy ammunition with programmable delay elements is used.
- 12. (Withdrawn) The method in accordance with claim 1, wherein all of the decoy ammunitions used for a particular decoy pattern are formed such as to have an identical velocity of departure  $(v_0)$ .
- 13. (Currently Amended) A protective system apparatus for the protection of ships against terminal phase-guided missiles comprising a target data analysis system, comprising:

at least one computer;

sensors for detecting terminal homing phase-guided missiles having a target data analysis system for discriminating between genuine and spurious target, that approach a ship to be protected;

sensors for detecting the direction of approach, distance, and velocity of the missiles:

wind measuring sensors for wind speed and direction of wind;

motion and/or navigation sensors for detecting the ship's own data: travelling speed, direction of travel, rolling and pitching motions;

at least one fire control calculator, wherein in particular a fire control calculator and a computer form a unit; and wherein the fire control calculator communicates with the sensors via data interfaces;

at least one decoy launcher arranged on the ship and dirigible in azimuth and elevation, which is equipped with decoy ammunitions, wherein the ammunition types

comprise RF, IR, and combined RF/IR ammunitions as well as unfolding corner reflectors,

## wherein

the computer includes a database in which appropriate decoy patterns for respective missile types and respective attack structures are stored, which allow to generate, in dependence on the identified missile and the attack structure, a particular decoy pattern so as to effectively protect a ship against the identified threat.

- 14. (Previously Presented) Apparatus in accordance with claim 13, wherein the at least one decoy launcher includes the following components:
  - a launching platform as a carrier of single decoy ammunitions;
  - electric launcher which fires the single decoy ammunitions in randomly adjustable temporal intervals,
  - an elevational drive for movement in height of the launching platform,
  - an azimuthal drive for sideways movement of the launching platform,
  - a base platform for receiving the drives,
  - shock absorbers at the base platform for attenuating rapid ship
     movements particularly brought about by mine detonation shocks;
  - STEALTH trimmings for reducing the ship's signature in the RF and IR ranges;
  - an interface which transmits a delay time of the decoy ammunition(s) from launch to activation of an effective charge immediately prior to launch from the at least one decoy launcher to the decoy

ammunition(s), preferably having the form of an electric plug-in connection or of an inductive connection via two corresponding coils.

- 15. (Previously Presented) Apparatus in accordance with claim 13, wherein the decoy ammunitions comprise integrated, electronic delay elements freely programmable by the fire control calculator.
- 16. (Previously Presented) Apparatus in accordance with claim 13, wherein the at least one decoy launcher is provided with at least one electric, hydraulic, and pneumatic directional drives, with the angular acceleration in the azimuthal direction and in the elevational direction being at least 50 DEG/s<sup>2</sup>.
- 17. (Previously Presented) Apparatus in accordance with claim 13, wherein RF and/or IR and/or UV sensors are provided for detection.
- 18. (Previously Presented) Apparatus in accordance with claim 13, wherein standardized interfaces, in particular at least one of NTDS, RS232, RS422, ETHERNET, IR, and BLUETOOTH interfaces are provided as data interfaces.
- 19. (Currently Amended) Apparatus in accordance with claim 13, wherein the decoy ammunitions [[may be]] include at least one of RF, IR, and combined RF/IR active compositions as well as unfolding, floating radio frequency reflectors, in particular radar reflectors (Airborne Radar Reflectors).

- 20. (Previously Presented) Apparatus in accordance with claim 19, wherein unfolding decoys are provided, wherein the folded decoys are fired by the at least one decoy launcher and are adapted to be unfolded by gases during the launch.
- 21. (Previously Presented) Apparatus in accordance with claim 20, wherein at least one of a radio frequency reflector, a radar reflector, a corner reflector, a radar reflector having eight tri-hedral corner reflectors (tri-hedrals), and nettings or foils, is provided as a decoy.
- 22. (Previously Presented) Apparatus in accordance with claim 20, wherein the decoy may be unfolded by inflating with hot gases.
- 23. (Previously Presented) Apparatus in accordance with claim 13, wherein the decoy may be inflated by pyrotechnical gas generators, in particular airbag gas generators.
- 24. (Previously Presented) Apparatus in accordance with claim 13, wherein that a decoy ammunition with programmable delay elements is provided.
- 25. (Previously Presented) Apparatus in accordance with claim 13, wherein all of the decoy ammunitions used for a particular decoy pattern have an identical velocity of departure ( $v_0$ ).

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- 26. (Previously Presented) Apparatus in accordance with claim 13, wherein the fire control calculator is at least one of a personal computer, a microcontroller control and an SPS control, with the fire control calculator including a standardized data interface, in particular a CAN bus (Controller Area Network bus) to transmit the determined data for deploying the decoy formation to the decoy launchers.
- 27. (Previously Presented) Apparatus according to claim 14, wherein the STEALTH trimmings are formed of at least one of obliquely inclined metallic surfaces and carbon fiber surfaces.
- 28. (Previously Presented) Apparatus according to claim 17, wherein the RF and/or IR and/or UV sensors are a ship's on-board reconnaissance sensors.